

Claims

1. (currently amended) An induction heating system comprising:
an electrical power supply;
first electrical lead means electrically attached to said electrical power supply, said first electrical lead means for conducting electrical power from said electrical power supply to
capacitor means;
capacitor means spaced from said power supply electrically connected to said first electrical lead means;
secondary lead means electrically connected to said capacitor means, said secondary lead means for conducting electrical currents to or from said capacitor means;
stripping head means including an electrically conductive coil member electrically connected to said secondary lead means.
2. (currently amended) An induction heating system comprising:
an electrical power supply;
first and ~~secondary~~ second primary leads electrically connected to said power supply, said first and second primary leads being constructed of elongate, flexible electrical cable;
first and second capacitors spaced from said power supply electrically connected, respectively, to said first and second primary leads;
first and second secondary leads electrically connected, respectively, to said first and second capacitors, said first and second secondary capacitors, said first and second secondary leads being constructed of elongate, flexible electrical cable; and
stripping head means electrically connected to said first and second secondary leads.

3. (currently amended) A method for heating metallic items for loosening coatings or protective layers adhered thereto comprising the steps of:

selecting and induction heating system comprising:

an electrical power supply;

first electrical lead means electrically attached to said electrical power supply, said first electrical lead means for conducting electrical power from said electrical power supply to capacitor means;

capacitor means spaced from said power supply electrically connected to said first electrical lead means;

secondary lead means electrically connected to said capacitor means, said secondary lead means for conducting electrical currents to or from said capacitor means;

stripping head means including an electrically conductive coil member electrically connected to said secondary lead means;

juxtaposing in said stripping head means to a metallic item to which is adhered to-be-removed coating or protective layer;

actuating said the electrical power supply;

maintaining said stripping head means in juxtaposition with said metallic item for a time sufficient to heat said metallic item for a time sufficient to heat said metallic item and loosen said coating or protective layer from said metallic item.

4. (canceled)

5. (currently amended) An induction heating system for stripping material from a metal surface comprising:

an electrical power supply;

primary electrical leads electrically attached to said electrical power supply and extending therefrom;

a capacitor spaced from said power supply arrangement electrically connected to said primary electrical leads;

secondary electrical leads electrically connected to said capacitor arrangement and extending therefrom; and

a moveable stripping head including an electrically conductive coil member electrically connected to said secondary leads, said leads being of a length to permit use of said head in a location remote from said power supply.

6. (previously presented) An induction heating system as claimed in claim 5 wherein said power supply is 75 KW, 10 KHz frequency and 480 volts.

7. (previously presented) An induction heating system as claimed in claim 6 wherein said capacitor arrangement is 450 KVAR (10,000 cycles per second).

8. (currently amended) An induction heating system as claimed in claim 5 wherein the length of said secondary leads from said capacitor arrangement to said stripping head is ~~at least~~ twenty-five percent (25%) of the length of said primary leads from said capacitor arrangement to said power supply.

9. (previously presented) An induction heating system as claimed in claim 5 wherein the length of said secondary leads is at least 20 feet.

10. (currently amended) An induction heating system as claimed in claim [[5]] 9 wherein the length of said primary leads is at least 80 feet.